

Prime Micro X

Styrene Maleic Anhydride
Primex Plastics Corporation

Message:

Is a tougher improved Styrene Maleic-anhydride copolymer resin for microwave packaging requiring "freezer to microwave" and ESCR performance. The reheated stiffness is better than PP and it can be exposed from - 40 to 250°F. Prime Micro-X is compatible with existing lid sealing films and is FDA approved.

Applications:
Food packaging for freezer to microwave. Prime Micro-X was compared to PP and filled PP for food packaging from 150 to >250°F filled with pancakes, muffins, pizza, sausage, chicken patties and bacon. The three materials passed the test with the exception of bacon and PP and filled PP ruptured, where the Micro-X had only a dimensional change.

Processing:
Prime Micro-X thermoforms similarly to Polystyrene. The same forming tools can be used for both materials.

Finishing:
Prime Micro-X can be trimmed with steel rule or hard trim dies.
Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.

Colors, Textures and Capabilities:
Colors are typically white, black and pastels but custom color matching is available by request. Textures include smooth and matte. Prime Micro-X comes in a wide variety of size and gauges. Please contact your local Primex Plastics representative for details.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	High Heat Resistance		
	High Tensile Strength		
	Low Temperature Impact Resistance		
Uses	Food Packaging		
Agency Ratings	FDA Unspecified Rating		
Appearance	Black		
	Colors Available		
	White		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	0.60	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	107	°C	ASTM D648
Vicat Softening Temperature	123	°C	ASTM D1525
Additional Information	Nominal Value	Unit	
Temperature Range	-40 to 121	°C	

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